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Because of the substantial enrollments reported by the University of Wisconsin—Milwaukee for its evening programs and the need for planning to accommodate these enrollments, the Joint Staff prepared an estimate of future enrollments for 1968 to 1973; data from 1957 to 1962 are also included.

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PROJECTION OF EVENING ENROLLMENTS AT THE UNIVERSITY OF WISCONSIN-MILWAUKEE

Because of the substantial enrollments reported by the University of Wisconsin-Milwaukee for its evening programs and the need for planning to accommodate these enrollments, the Joint Staff has prepared an estimate of such future enrollments.

The Joint Staff in the past has been concerned only with projections of daytime enrollments and only those estimates of a long-range nature. The projections or estimates noted herein are also of long-range character starting with 1968.

Before explaining the technique used to make the estimates and before the estimates are displayed, a few remarks are presented which should aid in the interpretation of the estimates. The establishment of a valid estimating procedure is a tenuous proposition. Of course, the validity of any technique is precisely determined as the estimates and actuals are compared. However, in most cases, a wait of such duration, especially with long-range estimation is impractical. In this case, use of the history of enrollments at UW-M appears to be the most valid approach. The accuracy of estimates is usually enhanced if there can be found a related factor which varies much as enrollments. Maximum use of such a related factor is illustrated in the use of the 17-21 year old pool for the estimation of daytime undergraduates. Where such related factors are not available then the use of some curve to fit the evidence of the past is usually employed. This technique is used by the Staff to project daytime graduate and professional students.

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Both of these techniques have been employed in the estimation of evening enrollments at UW-M. A note of caution, however; it is not expected that the estimates of evening enrollments will be as "good" as those for daytime enrollments because:

(1) The period of history of such programs under the present administrative situation is relatively short and,

(2) The use of a pool for the projection of evening undergraduates involves a wider and less constrictive age span.

Table I exhibits the enrollment history of the evening programs of UW-M. While the evening program was in existence sooner, adequate enrollment statistics were collected starting in 1957. Table II is an exhibit of the age distribution of the evening undergraduates. It is important to note that the average age of the evening undergraduate is at least five years higher than his daytime counterpart. While the 17-21 year old range encompasses about 85% of the daytime undergraduate, only 26% of the evening group are from that age range.

Also, the distribution of ages for the evening student is much wider than that of the daytime undergraduates. The inter-percentile range for the daytime student is from 18.5 to 21.5; the inter-percentile range for the evening student is from about 21 to 28. Because of this disparity between the age composition of the daytime undergraduate and the evening undergraduate, the use of a pool of students to project enrollments for the evening program is not as effective as that used for the daytime projections.

As mentioned previously, two general techniques were used for the projection of these enrollments, (1) the use of a pool for the undergraduate and,

(2) the use of a curve for graduate programs. A pool of students was determined for each of the years from 1957 to 1973. This pool is an unweighted 20 to 26 accumulation of persons residing in Milwaukee County. The use of this pool together with the past history of enrollments established an average increase in the college-going rate.

As one can note from Table I, the graduate enrollments, other than engineering, have increased over the period from 1957 - 1962. A straight line, using the technique of least-squares, was determined which best fit this history. The two remaining categories presented no trend which reasonably might be used as a clue to help in estimation. To follow the trend which is exhibited in the graduate engineering enrollments would result in estimating a decreasing number of enrollments in these programs. For this reason the average over the period 1957-1962 was used. Similarly, with no trend apparent in special enrollments, the average over the period was used.

Each of the categories herein used (and others that might reasonably be added in the future), should be examined closely as the history of enrollments builds up for clues to make estimation more accurate. For the present however, the estimates shown in Table III are the Joint Staff's best interpretation of the history exhibited to date.

TABLE I

ENROLLMENTS IN EVENING PROGRAMS AT UWM

Year	Undergraduates	Specials	Graduates w/o Engr.	Graduates	Total
1957	707	725	262	211	1905
1958	785	600	333	279	1997
1959	820	491	400	333	2044
1960	839	632	446	241	2158
1961	843	575	529	227	2174
1962	1057	744	583	211	2595

TABLE II

AGE DISTRIBUTION OF EVENING UNDERGRADUATES AT UWM

First Semester, 1962-63

Age	Number	Age	Number	Age	Number	Age	Number
17	1	29	40	41	4	53	3
18	18	30	34	42	8	54	3
19	71	31	25	43	3	56	2
20	105	32	17	44	5	57	3
21	82	33	20	45	5	58	1
22	78	34	19	46	5	63	2
23	93	35	15	47	5		
24	102	36	12	48	4		
25	64	37	15	49	3		
26	77	38	9	50	3		
27	42	39	6	51	3		
28	40	40	9	52	1		

TABLE III

ESTIMATES OF EVENING ENROLLMENTS
University of Wisconsin-Milwaukee

Year	Undergraduates	Specials	Graduates w/o Engr.	Engr. Graduates	Total
1968	1954	627	969	250	3800
1969	2155	627	1033	250	4065
1970	2329	627	1097	250	4303
1971	2535	627	1161	250	4573
1972	2802	627	1225	250	4904
1973	3074	627	1289	250	5240